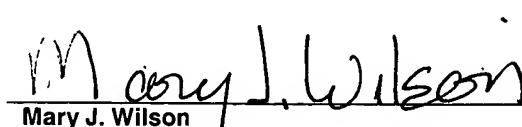


FORM PTO-1390 MODIFIED	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTORNEY'S DOCKET NUMBER " 620-438	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) 10/578,848
INTERNATIONAL APPLICATION NO. PCT/EP2004/011958	INTERNATIONAL FILING DATE 22 October 2004	PRIORITY DATE CLAIMED 12 November 2003
TITLE OF INVENTION METHODS AND MEANS RELATING TO HEPATITIS B INFECTION		
APPLICANT(S) FOR DO/EO/US HELLSTROM ET AL.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The U.S. has been elected (Article 31).</p> <p>5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input type="checkbox"/> is attached hereto (pages specification, claims & abstract (claims), sheets drawings).</p> <p>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> is attached hereto (pages specification, claims & abstract (claims), sheets drawings, page Certificate of Translation).</p> <p>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. a. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>b. <input type="checkbox"/> Declaration was submitted to the International Bureau during International Phase (see copies of Declaration (page Form PCT/RO/101 and Form PCT/IB/371 and first page of printed publication acknowledging receipt thereof attached).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
<p>Items 11 To 20 below concern document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.</p> <p>13. a. <input type="checkbox"/> A FIRST preliminary amendment.</p> <p>b. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 C.F.R. § 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input type="checkbox"/> Other items or information</p>		

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) 10/578,848	INTERNATIONAL APPLICATION NO. PCT/EP2004/011958	ATTORNEY'S DOCKET NUMBER 620-438		
<input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5): 21. <input type="checkbox"/> Basic national fee \$300.00 (1631)/\$150.00 (2631) <input type="checkbox"/> \$ 22. <input type="checkbox"/> Examination Fee \$0 (1643/2643) <input type="checkbox"/> \$ 23. <input type="checkbox"/> Search Fee \$200.00 (1633)/\$100.00 (2633) <input type="checkbox"/> \$ \$0 (1640/2640) <input type="checkbox"/> \$ \$100 (1641)/\$50 (2641) <input type="checkbox"/> \$ \$400 (1642)/\$200 (2642) <input type="checkbox"/> \$ \$500.00 (1632)/\$250.00 (2632) <input type="checkbox"/> \$ TOTAL OF ABOVE CALCULATIONS <input type="checkbox"/> \$ 0.00				
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.				
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	
60 -100	0 /50 =	0.00	\$0.00 (1681) \$0.00 (2681)	\$
Surcharge of \$130.00 (1617)/\$65.00 (2617) for furnishing the oath or declaration later than <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)).			\$	
CLAIMS	NUMBER FILED	# EXTRA	RATE	
Total Claims	23	minus 23 = 0 X	\$50.00 (1615)/	\$25.00 (2615)
Independent Claims	3	minus 3 = 0 X	\$200.00 (1614)	\$100.00 (2614)
MULTIPLE DEPENDENT CLAIMS(S) (if applicable)			\$360.00 (1616)/\$180.00 (2616)	\$ 0.00
Petition is hereby made to extend the current due date so as to cover the filing date of this paper and attachment(s): One Month Extension \$120.00 (1251)/\$60.00 (2251); Two Month Extensions \$450.00 (1252)/\$225.00 (2252); Three Month Extensions \$1020.00 (1253)/\$510.00 (2253); Four Month Extensions \$1590.00 (1254)/\$795.00 (2254)			\$ 0.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.				
Processing fee of \$130.00 (1618), for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)).			+ 0.00	
			TOTAL NATIONAL FEE =	\$ 0.00
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 (8021) per property			+ \$ 40.00	
Fee for Petition to Revive Unintentionally Abandoned Application; \$1500.00 (1453) / \$750.00 (2453)			\$ 0.00	
			TOTAL FEES ENCLOSED =	\$ 40.00
			Amount to be: refunded:	\$
			Amount to be Charged:	\$
a. <input type="checkbox"/> A check in the amount of \$40.00 to cover the above fees is enclosed.				
b. <input type="checkbox"/> Please charge my Deposit Account No. 14-1140 in the amount of \$ _____ to cover the above fees.				
A duplicate copy of this form is enclosed.				
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A <u>duplicate</u> copy of this form is enclosed.				
d. <input checked="" type="checkbox"/> CREDIT CARD PAYMENT FORM ATTACHED.				
e. <input checked="" type="checkbox"/> The entire content of International Application No. PCT/EP2004/011958 and any U.S. and foreign application(s) corresponding thereto, and GB 0326416.5 and U.S. Prov. No. 60/519,152, referred to in this application is/are hereby incorporated by reference in this application.				
NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b) must be filed and granted to restore the application to pending status.				
CORRESPONDENCE ADDRESS				
Direct all correspondence to:				
<input checked="" type="checkbox"/> Customer Number: 23117 <small>Type Customer Number here</small>				
Telephone: (703) 816-4000 MJW:tat				
 Mary J. Wilson NAME				
32,955 REGISTRATION NUMBER				
July 24, 2006 Date				